

QT-Brightek PLCC Series
PLCC2 High Bright Blue LED

Part No.: QBLP669E-IB-2897

2897: High Brightness Version

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Introduction

Feature:

- Package in tape and reel
- Clear lens
- Ultra bright reflector type PLCC2 LED
- InGaN technology
- Viewing angle: 120 deg typ.
- High bright version

Description:

These ultra bright reflector type PLCC2 LEDs have a height profile of 1.90mm. Combination of high brightness output and robust package, these LEDs are ideal for architecture lighting, status indication, and industrial equipment lighting applications.

Application:

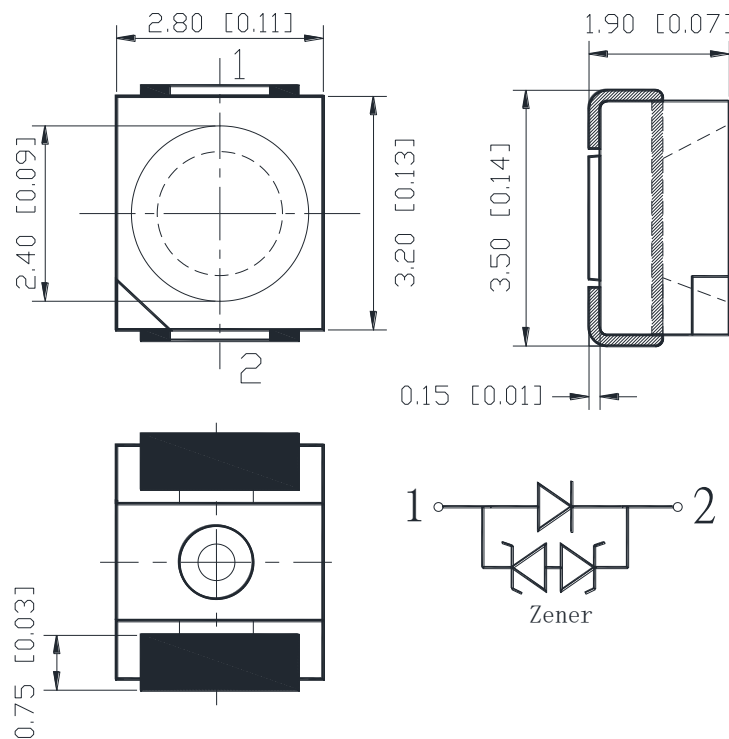
- Status indication
- Industrial equipment backlighting
- Architecture lighting

Certification & Compliance:

- TS16949
- ISO9001
- RoHS Compliant



Dimension:



Units: mm / tolerance = +/-0.2mm

Electrical / Optical Characteristic (Ta=25 °C)

Product	Color	I _F (mA)	V _F (V)		λ _D (nm)			I _V (mcd)		
			Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.
QBLP669E-IB-2897	Blue	20	3.1	3.4	460	465	470	200	300	400

Absolute Maximum Rating

Material	P _d (mW)	I _F (mA)	I _{FP} (mA)*	V _R (V)	T _{OP} (°C)	T _{ST} (°C)	T _{SO L} (°C)**
InGaN	108	30	125	5	-40 to +105	-40 to +105	260

*Duty 1/8 @ 1KHz

**IR Reflow for no more than 10 sec @ 260 °C

Forward Voltage V_F @ I_F=20mA

Bin	Min.	Max.	Unit
2	2.8	3.0	V
3	3.0	3.2	
4	3.2	3.4	

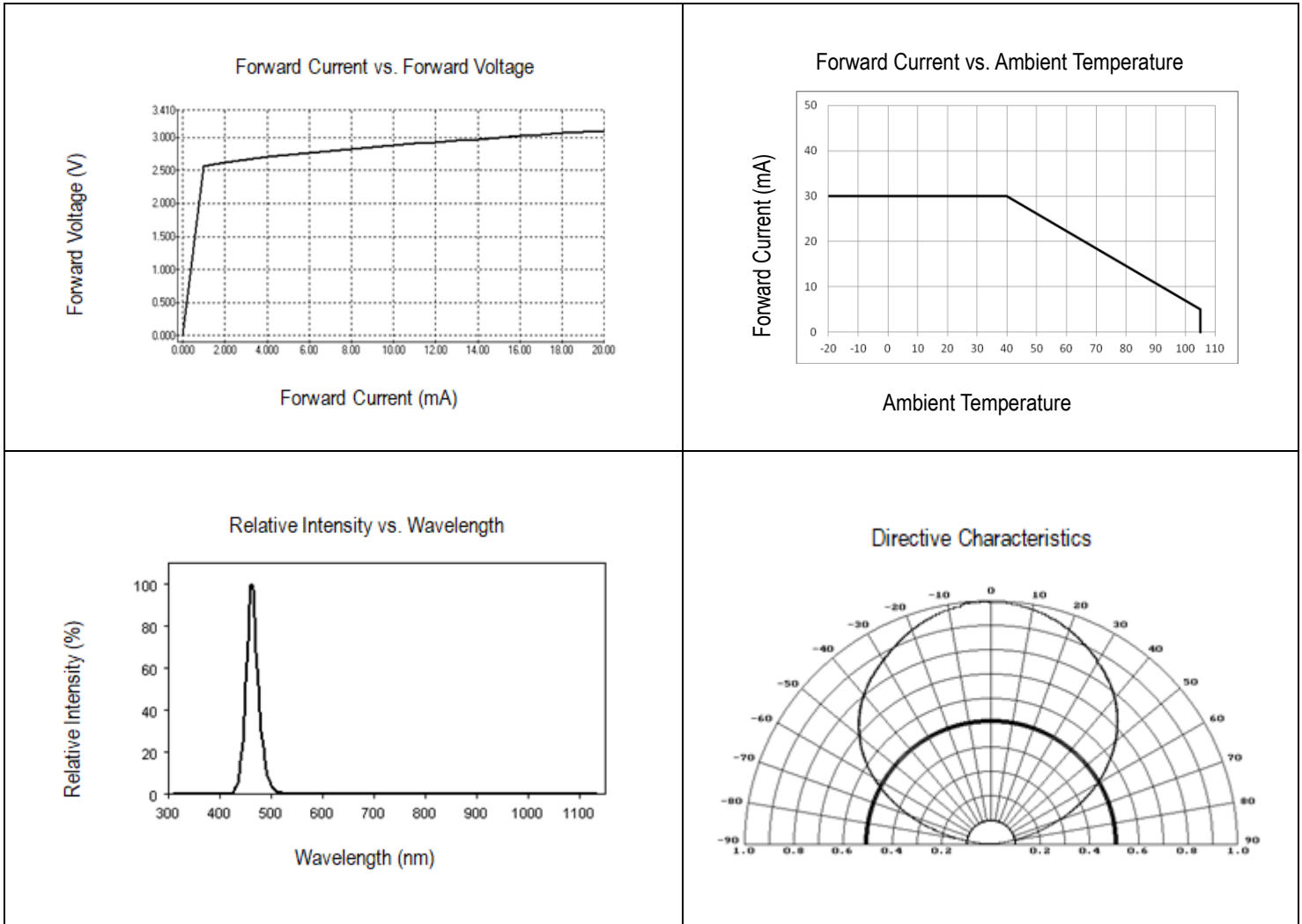
Luminous Intensity I_V @ I_F=20mA

Bin	Min.	Max.	Unit
M	200	250	mcd
N	250	320	
O	320	400	

Dominant Wavelength λ_D @ I_F=20mA

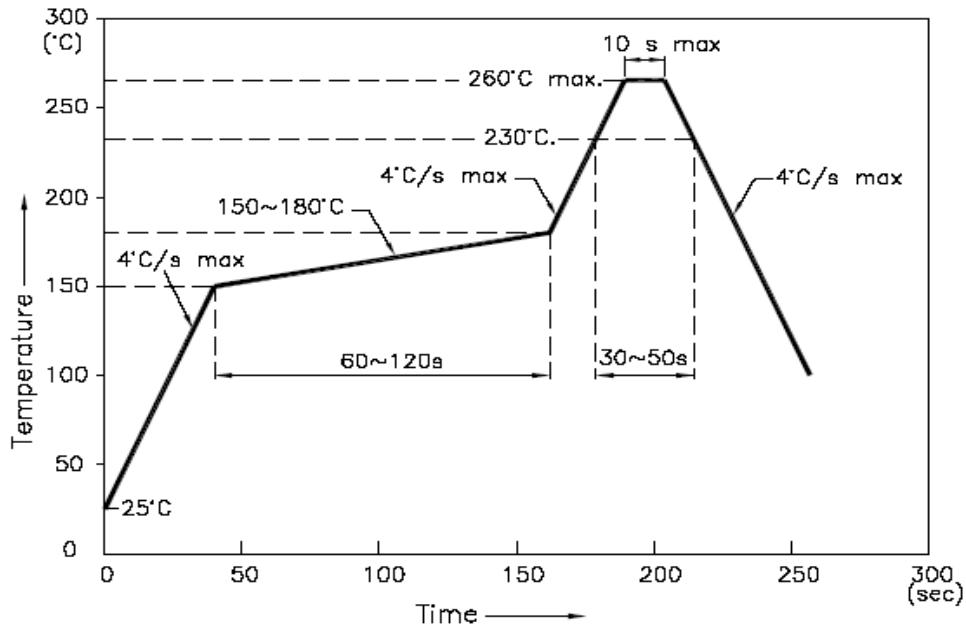
Bin	Min.	Max.	Unit
E	460	462.5	nm
F	462.5	465	
G	465	467.5	
H	467.5	470	

Characteristic Curves

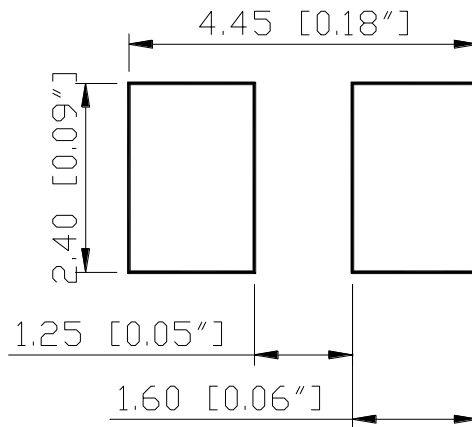


Solder Profile & Footprint

-The recommended reflow soldering profile is as follows (temperatures indicated are as measured on the surface of the LED resin):



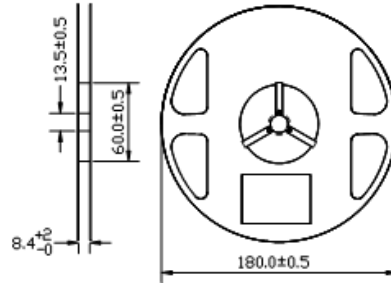
Recommended Pad Layout



Units: mm

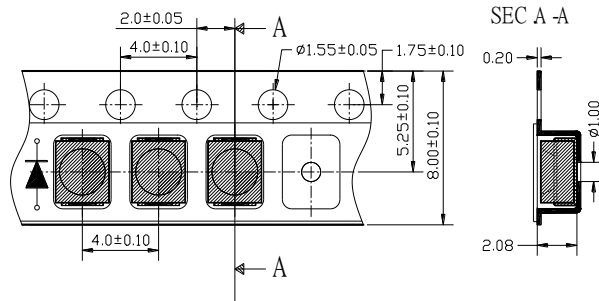
Packing

Reel Dimension:



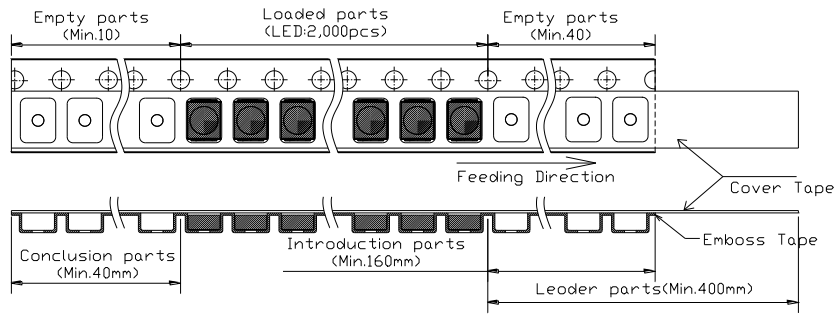
Unit: mm

Tape Dimension:

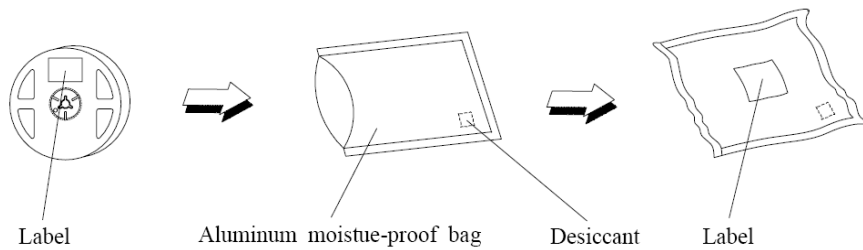


Unit: mm

Arrangement of Tape:



Packaging Specifications:



Labeling



Part No: _____

Customer P/N: _____

Item: _____

Q'ty: _____

Vf: _____

Iv: _____

WI: _____

Date: _____

Made in China

Ordering Information

Part #	Orderable Part #	Spec Range	Quantity per reel
QBLP669E-IB-2897	QBLP669E-IB-2897	Iv=300mcd typ. @ 20mA / Color=460nm to 470nm	2,000 units

Revision History

Description:	Revision #	Revision Date
New Release of QBLP669E-IB-2897	V1.0	06/06/2022

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2. A critical component in any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.